FIG. 1

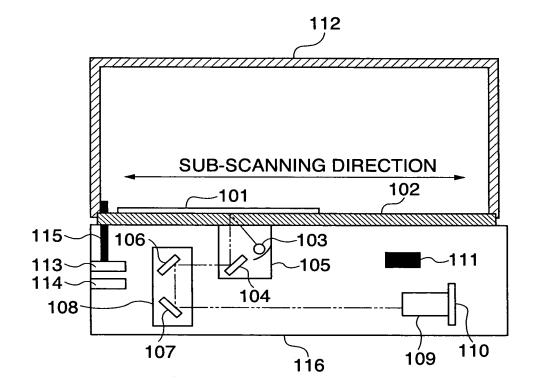
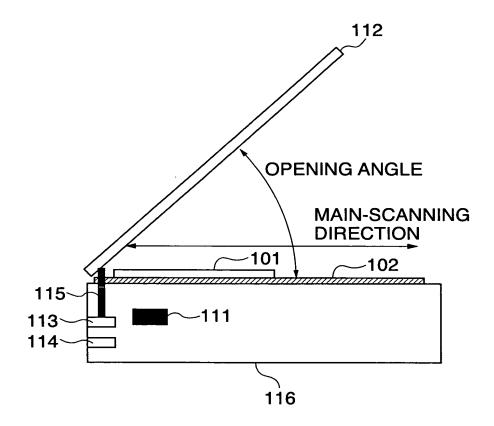
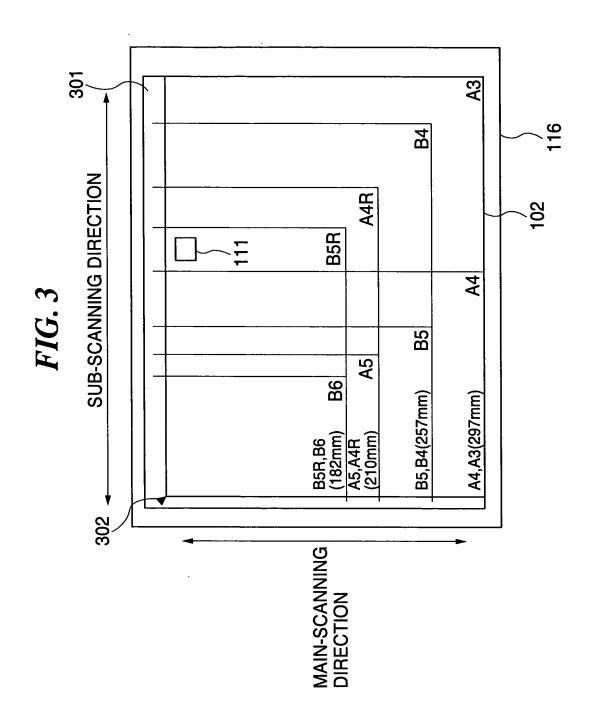


FIG. 2

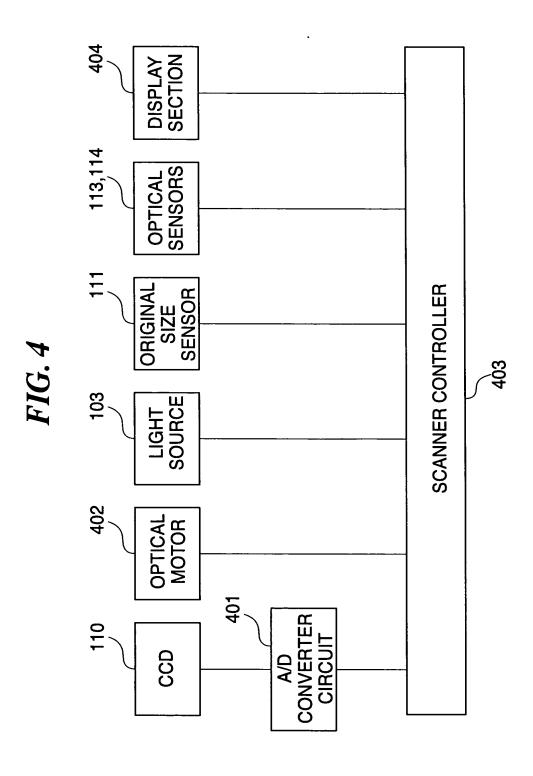


3/22



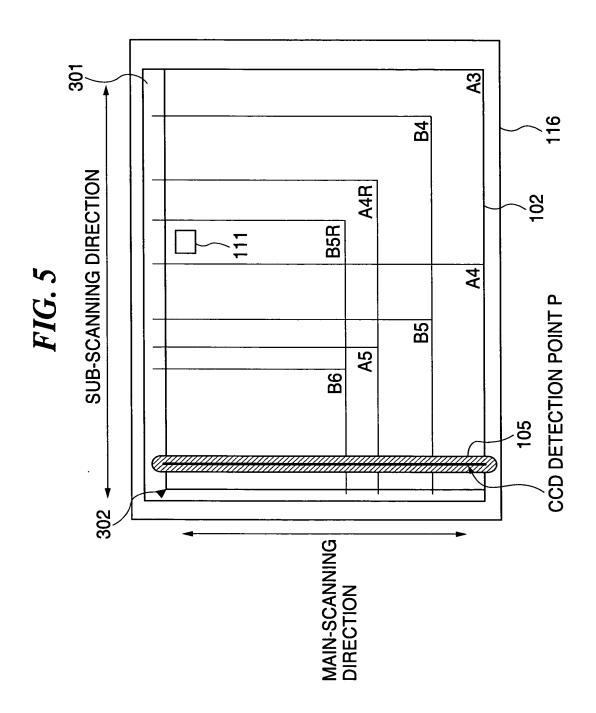
<u></u>

4/22



_

5/22





6/22

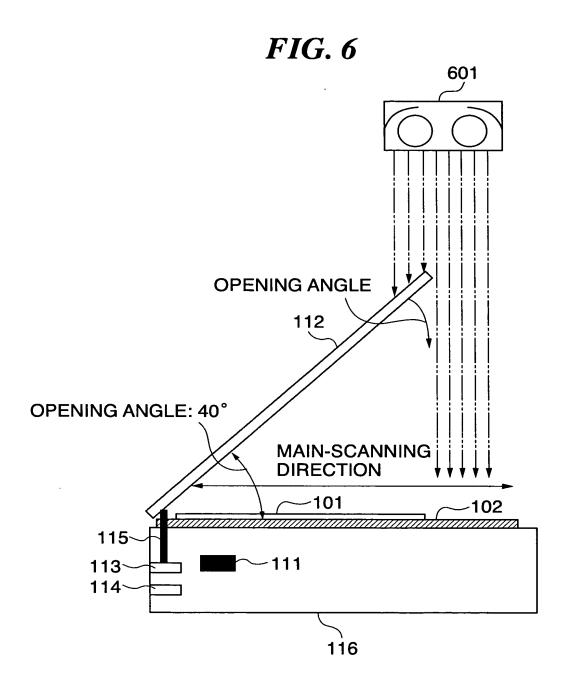
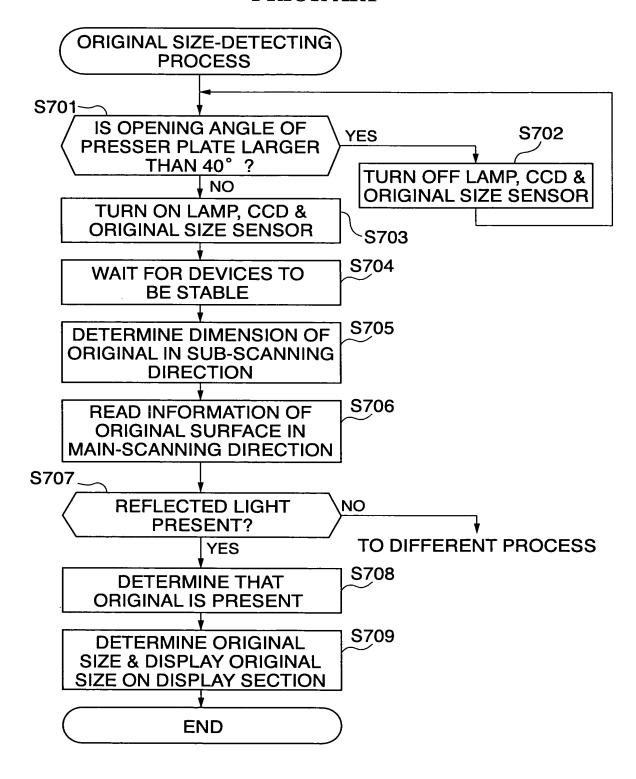
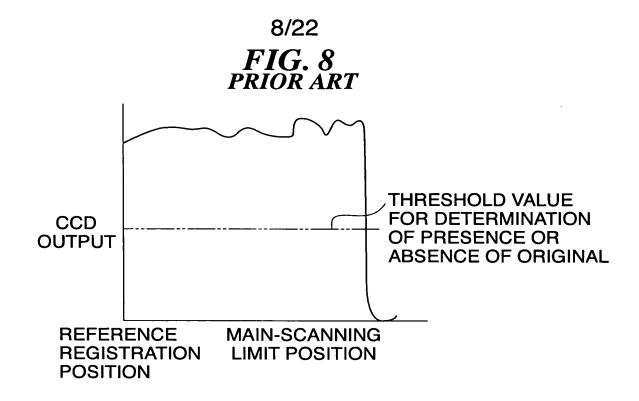
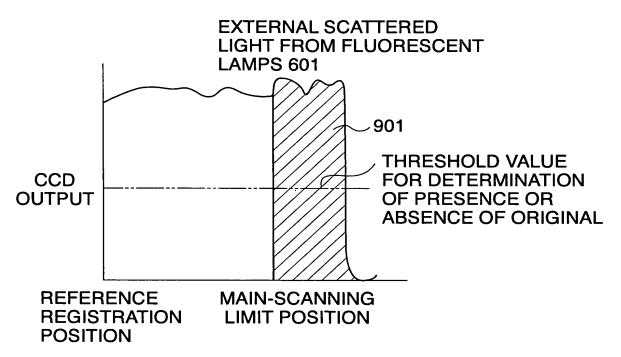


FIG. 7 PRIOR ART









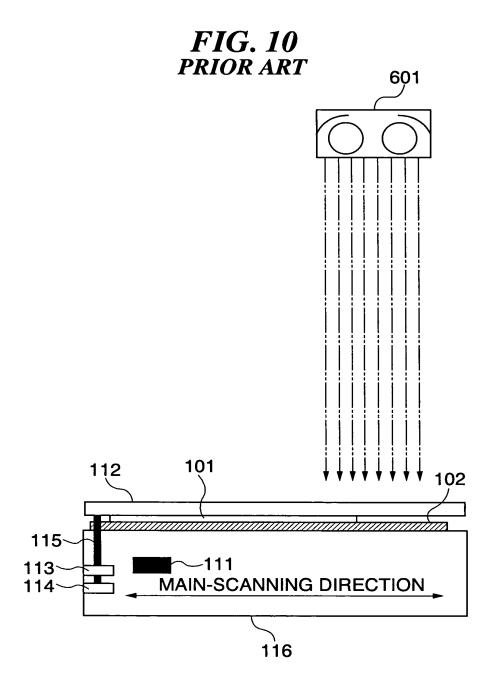


FIG. 11 PRIOR ART

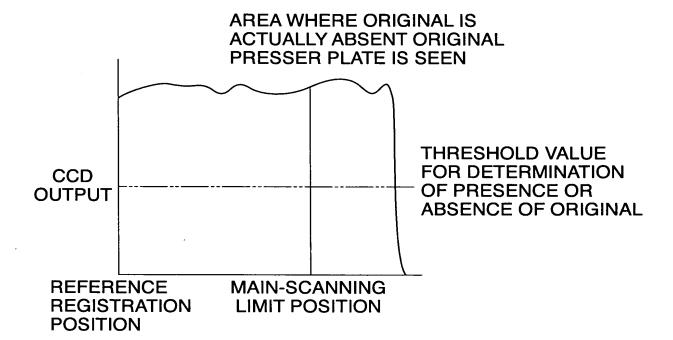


FIG. 12

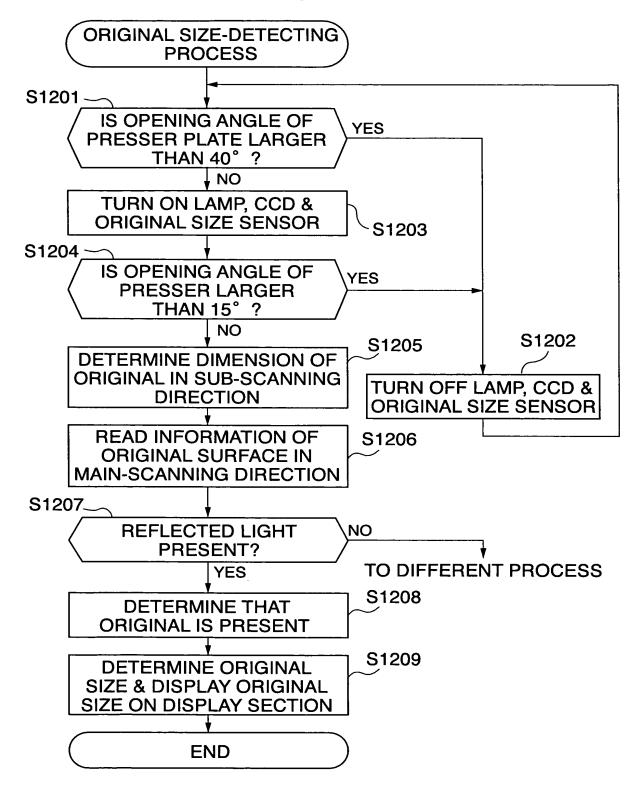
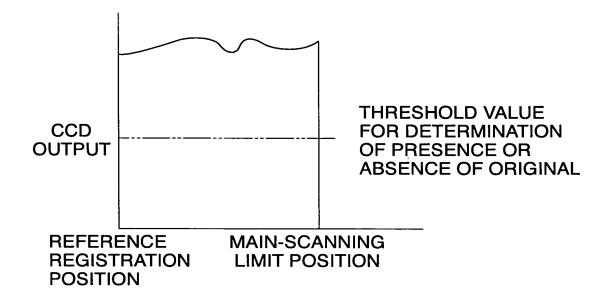


FIG. 13



| * | 1 | |
|---|---|--|
| - | 7 | |
| 7 | _ | |
| | | |
| | | |

| RESULT OF DETERMINATION BASED ON DETECTION IN | RESULT OF DETERMINATION BASED ON DETECTION BY ORIGINAL SIZE SENSOR | RESULT OF DETERMINATION BASED ON DETECTION BY ORIGINAL SIZE SENSOR |
|--|--|---|
| MAIN-SCANNING DIRECTION | ORIGINAL PRESENT ORIGINAL ABSENT | ORIGINAL ABSENT |
| B5R,B6 | B5R | B6 |
| A4R,A5 | A4R | A5 |
| B5,B4 | B4 | B5 |
| A4,A3 | A3 | A4 |

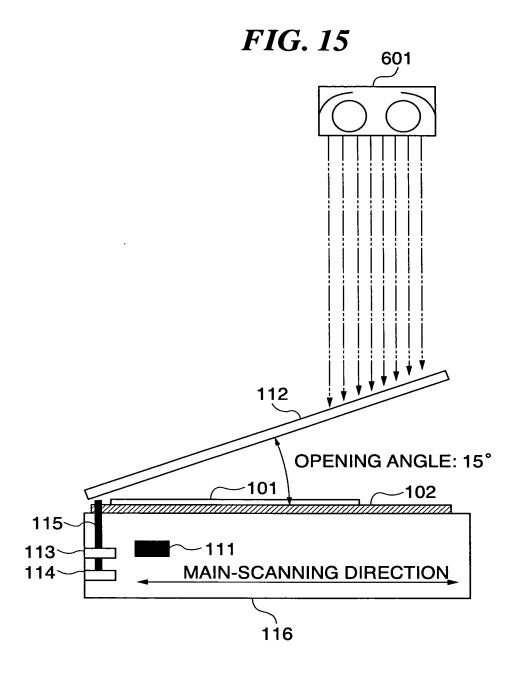


FIG. 16

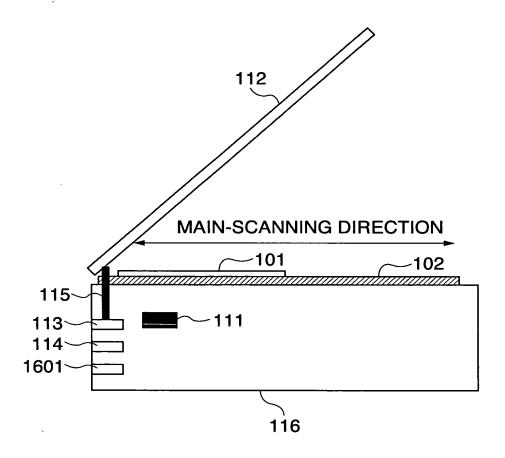


FIG. 17A

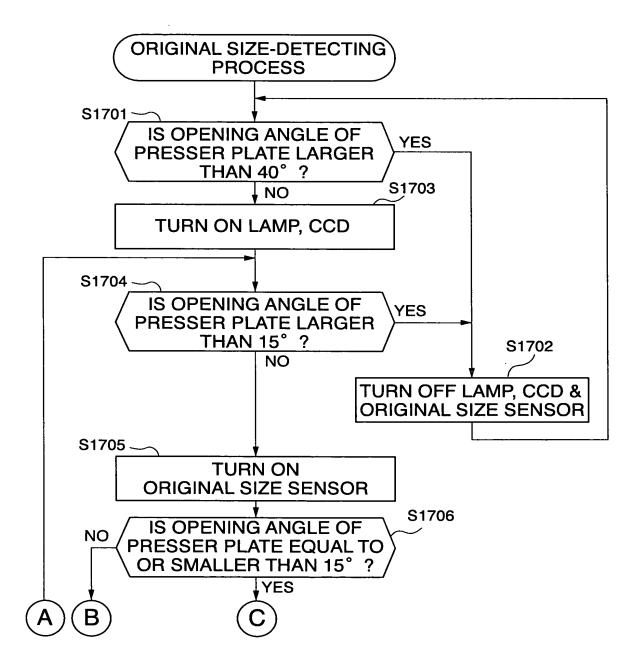


FIG. 17B

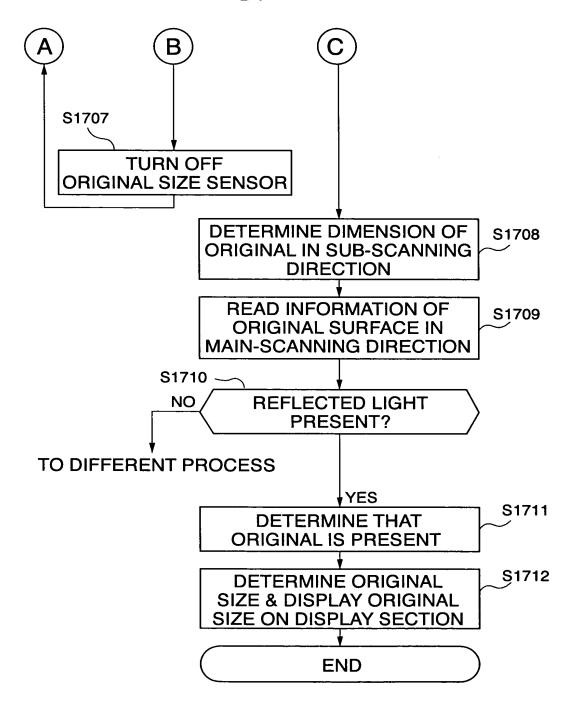
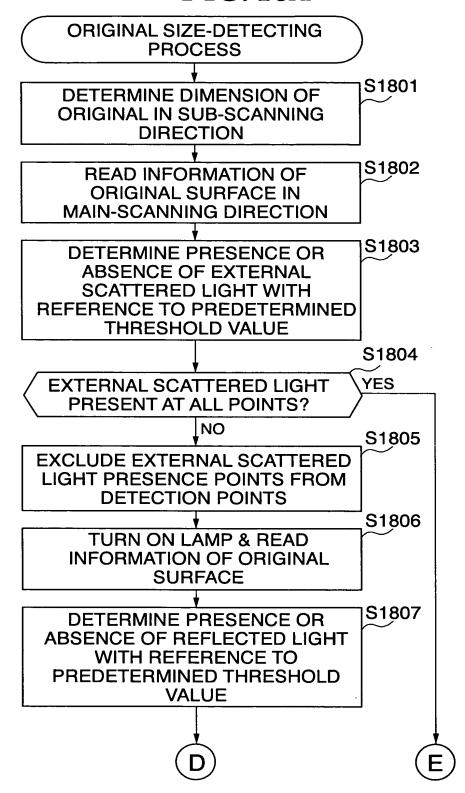


FIG. 18A



19/22

FIG. 18B

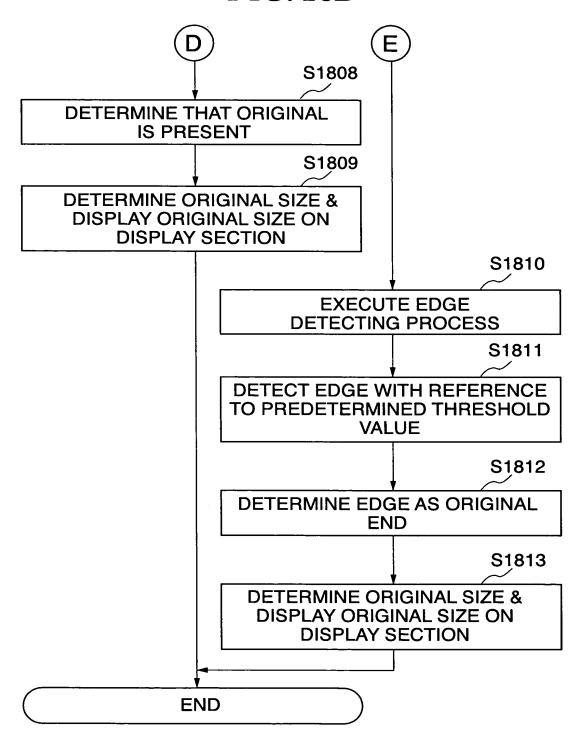


FIG. 19

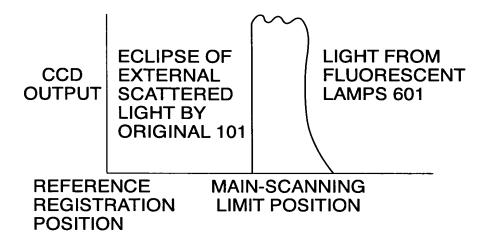


FIG. 20

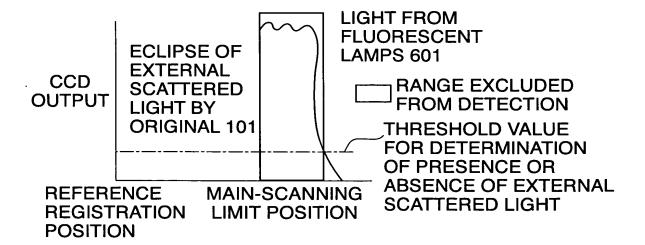
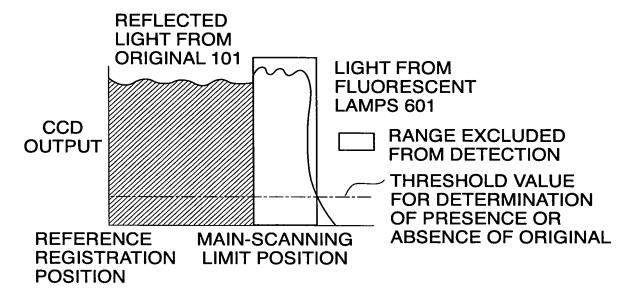


FIG. 21



POSITION OF ORIGINAL 101

CCD OUTPUT

REFERENCE MAIN-SCANNING LIMIT POSITION POSITION

POSITION

POSITION

POSITION

THRESHOLD VALUE FOR DETERMINATION OF PRESENCE OR ABSENCE OF EXTERNAL LIGHT

FIG. 23

EDGE DETECTED POSITION

